

25
YEAR
QUALITY ASSURANCE

30
YEAR
POWER OUTPUT GUARANTEE

VSUN435N-108BMH-BB

VSUN440N-108BMH-BB

VSUN435N-108BMH-BB

VSUN430N-108BMH-BB

VSUN425N-108BMH-BB

VSUN420N-108BMH-BB

VSUN415N-108BMH-BB

440W

Highest power output

22.53%

Module efficiency

1.0%

First-year degradation warranty

0.40%

Annual degradation over 30 years

KEY FEATURES

TOPcon TOPcon technology



Higher output power



MBB technology with Circular Ribbon



Positive tolerance offer



Bifacial cells, converting more sunlight into electricity



Better shading tolerance



Better temperature coefficient



Excellent PID Resistance



Lower LCOE



UL 61730 & CSA 61730
IEC 61215 & IEC 61730

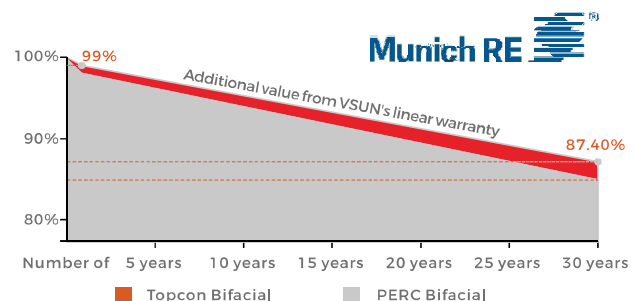
ABOUT VSUN

Invested by Fuji Solar, VSUN SOLAR is a solar solution provider with headquartered in Tokyo, Japan that offers reliability, high efficiency solar products and technology globally. VSUN is rated as BNEF Tier 1 PV module manufacturer, PVEL Lab "Best performer" and EcoVadis "Bronze Award".

PRODUCT CERTIFICATION



WARRANTY



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN440N-108BMH-BB	VSUN435N-108BMH-BB	VSUN430N-108BMH-BB	VSUN425N-108BMH-BB	VSUN420N-108BMH-BB	VSUN415N-108BMH-BB
Maximum Power - Pmax (W)	440	435	430	425	420	415
Open Circuit Voltage - Voc (V)	39.38	39.12	38.84	38.56	38.27	38
Short Circuit Current - Isc (A)	13.85	13.8	13.75	13.7	13.65	13.6
Maximum Power Voltage - Vmpp (V)	33.37	33.13	32.88	32.64	32.38	32.13
Maximum Power Current - Imp (A)	13.18	13.13	13.08	13.02	12.97	12.92
Module Efficiency	22.53%	22.28%	22.02%	21.76%	21.51%	21.25%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1.5; module temperature 25°C. Pmax Sorting : 0~5W. Measuring Tolerance: ±3%.

Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical Characteristics with different rear side power gain(reference to 435 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
457	39.12	14.49	33.13	13.79	5%
478	39.12	15.18	33.13	14.44	10%
521	39.20	16.56	33.05	15.76	20%
542	39.20	17.25	33.05	16.41	25%

Material Characteristics

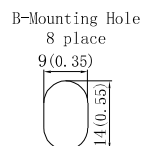
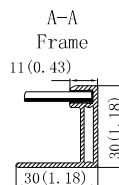
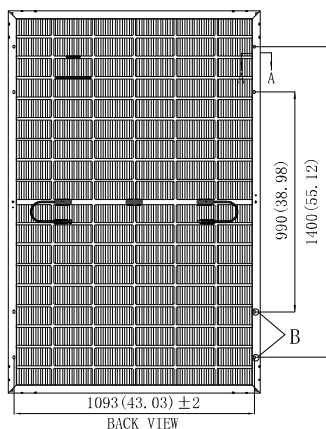
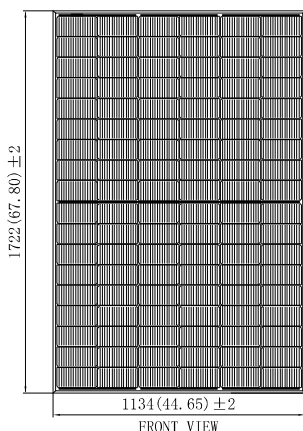
Dimensions	1722×1134×30mm (L×W×H) 67.80*44.65*1.18 inches (L×W×H)
Weight	21.4kg / 47.18lbs
Frame	Black anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Transparent black-mesh backsheet
Cells	12×9 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 1300 mm , 1×4 mm ² or 12AWG
Connector	Staubli MC4

Packaging

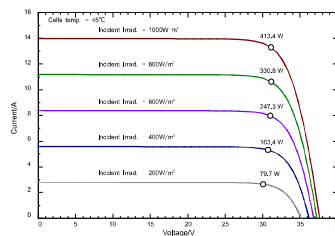
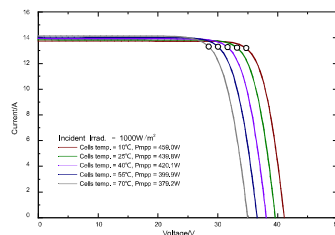
Dimensions(L×W×H)	1760×1125×1253mm / 69.29*44.29*49.33inches
Quantity per pallet	36 pcs
Container 20'	216
Container 40'	468
Container 40'HC	936 or 828 for US

Dimensions

Note:mm (inch)



IV-Curves



Excellent performance under weak light condition.